

WHAT IS CLAIMED IS:

1. A traffic control unit for carrying out traffic control of data in a first shared resource of a network including besides the first shared resource, a second shared resource and a local switch, which are shared by a plurality of users, said traffic control unit comprising:

receiving means for receiving the data;

traffic control means for carrying out traffic control of data to be transmitted to said local switch through said second shared resource from among the data received by said receiving means; and

transmission means for transmitting the data passing through the traffic control by said traffic control means.

2. The traffic control unit as claimed in claim 1, wherein said network comprises:

a radio base station; and

a transmission path between the radio base station and local switch for transmitting data between said radio base station and said local switch, and wherein

said first shared resource consists of said radio base station, and said second shared resource includes said transmission path between the radio base station and local switch.

3. The traffic control unit as claimed in claim 1 or 2,

wherein said data takes place in a burst mode at a period proper to the data, and wherein said traffic control unit carries out, for the data received by said receiving means, traffic control such that a cumulative transmission volume in a traffic monitoring period defined by taking account of the proper period does not exceed a volume based on a traffic rate.

4. A traffic control unit for carrying out traffic control of data taking place in a burst mode at a period proper to the data, said traffic control unit comprising:
receiving means for receiving data;

traffic control means for carrying out traffic control for the data received by said receiving means such that a cumulative transmission volume in a traffic monitoring period defined by taking account of said proper period does not exceed an allowed transmission volume based on a traffic rate; and

transmission means for transmitting data controlled by said traffic control means.

5. The traffic control unit as claimed in claim 4, wherein said traffic control means carries out, for the data received by said receiving means, peak traffic control such that a cumulative transmission volume in a peak traffic monitoring period defined by taking account of the proper period does not exceed an allowed transmission volume based

Sub B1
5 on a peak traffic rate, and sustainable traffic control such that a cumulative transmission volume in a sustainable traffic monitoring period defined by taking account of the proper period does not exceed an allowed transmission volume based on a sustainable traffic rate.

6. The traffic control unit as claimed in claim 5, wherein said sustainable traffic control is carried out by sliding the sustainable traffic monitoring period at every peak
10 traffic monitoring period.

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7. The traffic control unit as claimed in claim 5 ~~or 6~~, wherein said peak traffic control period is equal to said proper period, and said sustainable traffic control period
15 is equal to n times said proper period, where n is a natural number.

Sub A7
8. The traffic control unit as claimed in any one of claims 4-7, wherein said data consists of ATM cells
20 generated from a radio frame, and said proper period equals a radio frame period.

Sub B2
9. A traffic control method for carrying out traffic control of data in a first shared resource of a network including besides the first shared resource, a second shared resource and a local switch, which are shared by a plurality of users, said traffic control method

comprising the steps of:

receiving data;

carrying out traffic control of data to be transmitted
to said local switch through said second shared resource
from among the data received; and

transmitting the data passing through the traffic
control.

10. A traffic control method for carrying out traffic
control of data taking place in a burst mode at a period
proper to the data, said traffic control method comprising
the steps of:

receiving data;

carrying out traffic control of the data received such
that a cumulative transmission volume in a traffic
monitoring period defined by taking account of the proper
period does not exceed an allowed transmission volume based
on a traffic rate; and

transmitting data passing through said traffic
control.